

Section 9520 - Oil Spill Maximum Most Probable Scenario

The definition of Maximum Most Probable Discharge is different for vessels and marine transportation related facilities. Each are defined in the Code of Federal Regulations.

Useful References:

Coast Guard Regulations
Title 33 Code of Federal Regulations (CFR)
Sections 154.1020 and 155.1020

For the Area Contingency Plan the Worst Case Discharge is defined as a spill of 50 barrels of oil.

Scenario Development

The following information was used in developing the scenario:

Historical spill considerations

There have been 12 discharges of larger than 10,000 gallons over the past 10 years (1982-1992) these include the T/B Hana, Exxon Houston Grounding, Chevron Pipeline failure, and the T/V Yupex. All the discharges have varying circumstances, causes, and results. The general causes can be linked to mechanical failures (most human error or weather related) which resulted in the discharge of a large quantity of refined product.

Hazard assessment

Assessments of daily risks for the Honolulu port area resulted in the development of the maximum most probable scenario. The scenario would involve offshore bunkering operations in which mechanical failure of transfer equipment causes a discharge of a quantity of product under pressure.

Vulnerability analysis

Refer to the Geographic Annex for identification of sensitive areas. The areas most at risk are in the high traffic areas in the vicinity of the main commercial harbors.

Risk assessment

Vessels passing through the zone to fuel and receive stores (gas 'n' go) frequent the offshore bunkering area. There is a reasonable probability that a vessel receiving bunkers from a barge could spill up to 50 barrels before either party was able to secure the transfer. The average gas 'n' go traffic is four vessels per week.

Seasonal considerations

No seasonal considerations apply to the maximum most probable as bunkering happens on a regular basis.

Event Description

Situation Mechanical failure during transfer operation

Location..... Anchorage southeast of Sand Island

Product Bunker Amount - 50 bbls.

Source Pollution source secured.

Areas at risk

Shoreline areas from Barbers Pt. to Diamond Head, shoreline impacts will be heaviest in the Pearl Harbor, Honolulu Harbor and Ala Wai basin areas.

Seasonal Considerations

No seasonal considerations apply.

Weather

Clear, 80_ (day), Light rain/overcast 70_ (night).

Initial actions

Notification

Initial notification is as stated in the Most Probable discharge scenario.

Activation of response

Activation is as stated in the Most Probable scenario.

Initial on-scene investigation, evaluation and recommendations

This aspect of the response will be executed in the same manner as the Most Probable scenario.

Initial response actions, strategies

The initial response will consist of open ocean or harbor boom (depending on sea conditions), with sorbent boom outside to pick up any entrained oil. Within the boomed area, skimmers will be employed. As a precaution, protection booming techniques may be employed for sensitive areas (refer to Section 3200 - Recovery and Protection).

Spill Response Organization

The response organization is as outlined in the Most Probable scenario.

Strategies

A description of the harbor areas and possible response strategies for specific sensitive areas are contained in the Geographic Annex of this plan.

Resource Requirements

Equipment

The initial response will consist of the large spill response platform, Clean Islands, as well as Munson boom boats, all fully equipped with skimmers and boom. MSO will request a platform from Group Honolulu for monitoring of the clean up. MSO Honolulu will also request air support from C.G. Airstation Barbers Point (over-flight of the spill).

Personnel

The Oil Spill Response Organization will provide boat operators and spill response personnel. The Coast Guard will employ MSO response personnel, and will request public affairs support from D14 (dpa).

Available Resources and Sources of Procurement

Primary response resources will be provided by the Oil Spill Response Organization on behalf of the Responsible Party. Additional resources could be supplied by military commands in the area through the DOD representative to the RRT. All resources needed for a 50bbl spill will be on scene within 2-3 hours.

Shortfalls

It is not anticipated that there will be any shortfalls for a spill response of this size and product.

Timeframe

A spill response of this size will take approximately 2-3 weeks to complete.

(NOTE: THESE TIMES ARE FOR PLANNING PURPOSES ONLY AND DO NOT REFLECT PERFORMANCE STANDARDS)

Disposal

Disposal options are as outlined Section 3240 - Disposal, of this plan. The options include the refinery for processing of collected oil, and the Waipahu incinerator and/or H-Power Plant for oiled debris.

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